

NEOTYPE DESIGNATION FOR *LEBIA MORIO*
DUFTSCHMID, FIXING THE NAME AS A
JUNIOR SYNONYM OF *DROMIUS AGILIS* (F.)
(COLEOPTERA: CARABIDAE)¹

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ABSTRACT: A neotype is designated for *Lebia morio* Duftschmid, *nomen dubium*, which fixes it as a junior subjective synonym of *Dromius agilis* (F.) (NEW SYNONYMY), and removes it from synonymy with *Sericoda bogemannii* (Gyllenhal).

In 1812 Caspar Duftschmid published volume 2 of his *Fauna Austriae*, in which he described *Lebia morio* (Table 1). In 1868, Gemminger and Harold synonymized *Lebia morio* under "*Platynus Bogemannii*" (Gyllenhal, 1813), which had been described as "*Harpalus Bogemannii*". Csiki (1931) retained *morio* Duftschmid as a junior synonym of the younger *bogemannii* Gyllenhal, but placed a "?" before the entry, presumably indicating his uncertainty regarding the prior action of Gemminger and Harold. I have recently completed a revision of the genus *Sericoda* Kirby (Liebherr, in press), which contains *bogemannii* as a member species. In the present note I designate a neotype for *L. morio*, fixing it as a junior subjective synonym of *Dromius agilis* (F.) (NEW SYNONYMY). This action removes *morio* from the synonymy of the younger *bogemannii*, preserving the stability of that name.

That Gemminger and Harold did not see any specimens of *L. morio* prior to their 1868 publication is supported by Gusenleitner's (1984) explanation of the fate of the Duftschmid collection, which I summarize below. Duftschmid's collection was purchased by Josef Knörlein, and in 1861, the Knörlein collection was purchased by the Oberösterreichisches Landesmuseum, Linz. Subsequent examination of the collection by Landesmuseum curators established that Knörlein had removed the original labels from the Duftschmid material, and uniformly substituted his own labels. Some time after 1933, the specimens in the Duftschmid-Knörlein collection were incorporated into the main collection of the museum, removing any positional information of the Knörlein labeled specimens. These actions eliminate the possibility of positively identifying which specimens Duftschmid used as the basis for his *Fauna Austriae*, effectively rendering Duftschmid's species *nomina dubia*. Specimens held at the Oö. Landesmuseum derived from the Duftschmid-Knörlein collection are identifiable by the label — "Alte Sammlung."

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Duftschnid placed *morio* in his "Fünfte Familie" of his interpretation of *Lebia* (Table 1). Duftschnid's generic concept was considerably broader than that of currently recognized genera. Duftschnid's "Familie", which in his usage was a rank lower than genus, roughly corresponds to a present-day genus. Only his "Familie" 4 is heterogeneous phylogenetically (Table 1). These species also exhibit the smallest body size of any species Duftschnid included in *Lebia*. All species in "Familie" 5 are currently placed in the genus *Dromius*, with Duftschnid's "*agilis* F." and "*velox* F." (*sic* = Olivier) currently considered conspecific (Csiki, 1932).

Duftschnid's concept of *velox* differs from that of *agilis* chiefly by the former being black, and *agilis* being rufous. Duftschnid's *morio* may be diagnosed from *velox* only by having the thorax subtly transversely rugulose, versus transversely rugulose. It seems likely that Duftschnid's *morio* was described from a dark specimen of what would currently be considered the variably colored *Dromius agilis*.

The male neotype selected and designated here to represent *Lebia morio* Duftschnid bears the labels: Austria (typescript label) / alte Samml. (typescript label) / *agilis* F., Aust. (handwritten label) / *agilis* Fab., det. M. Priesner / NEOTYPE, *Lebia morio* Duftschnid, J.K. Liebherr 1990 (red label). It is deposited in the Oö. Landesmuseum, Linz. This designation establishes *Lebia morio* Duftschnid, 1812 as a junior subjective synonym of *Dromius agilis* (Fabricius, 1787) (NEW SYNONYMY), and removes *L. morio* from synonymy with *Sericoda bogemannii* (Gyllenhal), thus ensuring the nomenclatural stability of this well-known Holarctic species.

Table 1. Listing of species, with "Familie" rank designations, included by Duftschnid (1812) in *Lebia*. The doubtful status of *Lebia morio* Duftschnid (Csiki, 1931) is clarified by the neotype designation herein. Other current senior synonyms, combinations, and authors are based on Csiki (1928, 1932), supplemented by Freude *et al.* (1976) and Cameron (1988).

"Familie" species epithet and author ¹	current status
1 <i>fasciolata</i> F.	<i>Polystichus connexus</i> (Geoffroy)
2 <i>axillaris</i> F.	<i>Cymindis axillaris</i> (F.)
2 <i>humeralis</i> F.	<i>Cymindis humeralis</i> (Geoffroy)
2 <i>homagrica</i> Duftschnid	<i>Cymindis axillaris</i> (F.)
2 <i>lunaris</i> Dahl	<i>Cymindis angularis</i> Gyllenhal
2 <i>miliaris</i> F.	<i>Cymindis variolosa</i> F.
3 <i>crux-minor</i> L.	<i>Lebia cruxminor</i> L.
3 <i>cianocephala</i> L.	<i>Lebia cianocephala</i> L.
3 <i>chlorocephala</i> Hoffman	<i>Lebia chlorocephala</i> (Hoffman)
3 <i>haemorrhoidalis</i> F.	<i>Lebia marginata</i> (Geoffroy)
3 <i>turcica</i> F.	<i>Lebia scapularis</i> (Geoffroy)

"Familie" species epithet and author ¹	current status
4 <i>quadrum</i> Creutzer	<i>Lionychus quadrum</i> (Duftschmid)
4 <i>quadriguttata</i> Paykull	<i>Bembidion quadrimaculatum</i> (L.)
4 <i>truncatella</i> L.	<i>Syntomus truncatellus</i> (L.)
4 <i>punctatella</i> Megerle	<i>Syntomus foveatus</i> (Geoffroy)
4 <i>glabrata</i> Megerle	<i>Microlestes minutulus</i> (Goeze)
4 <i>obsкуро-guttata</i> Andersch	<i>Syntomus obsкуроguttatus</i> (Duftschmid)
4 <i>plagiata</i> Megerle	<i>Microlestes plagiatus</i> (Duftschmid)
5 <i>quadrimaculata</i> L.	<i>Dromius quadrimaculatus</i> (L.)
5 <i>agilis</i> F.	<i>Dromius agilis</i> (F.)
5 <i>velox</i> F.	<i>Dromius agilis</i> (F.)
5 <i>morio</i> Duftschmid	?
5 <i>quadrinotata</i> Panzer	<i>Dromius quadrinotatus</i> (Panzer)
5 <i>fascitata</i> F.	<i>Dromius sigma</i> (Rossi)
6 <i>atricapilla</i> L.	<i>Demetrias atricapillus</i> (L.)
6 <i>elongatula</i> Zenker	<i>Demetrias atricapillus</i> (L.)
6 <i>punctato-striata</i> Duftschmid	<i>Dromius linearis</i> (Olivier)

¹Authorship listed is that attributed by Duftschmid (1812) even though incorrect in some cases.

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